

Work Order ID 135954

Tuesday, August 25, 2015 1:06:52 PM

135954

Page 1

Item ID: D3394-043 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Lug
Start Date: 8/25/2015 Start Qty: 36.00 ***36*** Cust Item ID:
Required Date: 8/25/2015 Req'd Qty: 36.00 ***36*** Customer:
Reference:

Approvals: Process Plan: MLJ Date: AUG 25 2015 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D3394 DEO	Rev B

100 0.00
100
Outsource5 36 AUG 26 2015 36

Outsource process - Machining
Memo
Issue P.O: 29607
Possible Supplier: Metec
C of C is Required

110 0.00
110
Packaging 0.01
Packaging
DAS 6 9-89
36 OCT 01 2015

Receive & Inspect for Damage & Mat'l Certs

120 0.00
120
QC 0.00
Quality Control
DAS 38 9-89
36 OCT 01 2015

QC6- Inspect dimensions to drawing

Memo

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
3007				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140 *140* HandFinish Hand Finishing	Chemical Conversion Coat per QSI005 4.1 <i>Memo</i> <i>N/A</i>	DAS 0.00 38 9-89							
150 *150* Powdercoat Powder Coating	White Gloss(Ref:4.3.5.1) per QSI005 4.3-A Alum <i>Memo</i> <i>N/A</i> START TIME: _____ OVEN TEMPERATURE: _____ FINISH TIME: _____	DAS 0.00 38 9-89							
160 *160* QC Quality Control	QC3- Inspect Part Finish <i>Memo</i>	0.00 0.01							<i>(36)</i>

DAS
38
9-89
OCT 01 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
170		0.00							
170	Small Fab								
Small Fab	Memo	0.01							
Small Fab	Assemble as per Dwg D3394								
180		0.00							
180	QC5- Inspect part completeness to step on W/O								
QC	Memo	0.01							
Quality Control									
190		0.00							
190	Identify as per dwg & Stock Location: <u>S1 S28</u>								
Packaging	Memo	0.01							
Packaging									

DAS
36
9-89

DAS
38
9-89

OCT 16 2015

DAS
27
9-89

OCT 20 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
200	QC21- Final Inspection - Work Order Release	0.00							
200									
QC	Memo	0.06							
Quality Control									

15/10/20 *[Signature]*

SH 20151020

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

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Picklist Print

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Page 1

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135954

Parent Item: D3394-043

D3394-043

Parent Item Name: Lug

Start Date: 8/25/2015

Required Date: 8/25/2015

Start Qty: 36.00

Required Qty: 36.00

Comments: IPP Rev: A New Issue 06-01-06 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

MS35489-93

Purchased

No

100

Each

56.0000

2

72

MS35489-93

Grommet

**

15/10/05 DAS 36 9-89

Location

Loc Qty

Loc Code

FG

10

121708

6

124903

4

GA

17

m129583

14

m132823

3

ST274

29

m129583

29

DAS 36 9-89

M133077 (32x)

M133363 (40x)

D2423

Manufactured

No

110

f

474.3015

0.07

2.652632

D2423

Lug Extrusion

**

2.6527 (2) AUG 26 2015

Location

Loc Qty

Loc Code

Metec

474.301478

127892

162.301478

131451

312

D3394-3P

Purchased

No

170

Each

0.0000

1

D3394-3P

Lug

**

DAS 6 9-89

OCT 01 2015

DQA: _____ Date: _____



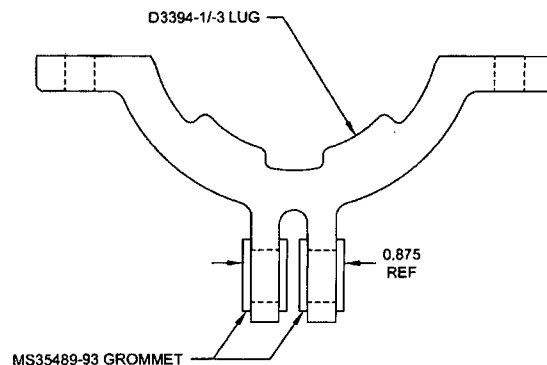
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

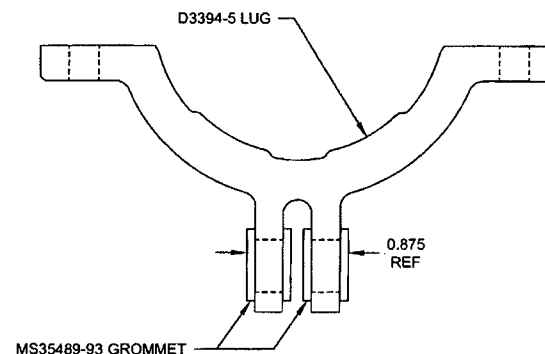
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			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

QTY. -041	QTY. -043	QTY. -045	PART NUMBER	DESCRIPTION
X			D3394-041	LUG ASSEMBLY
	X		D3394-043	LUG ASSEMBLY
		X	D3394-045	LUG ASSEMBLY
1			D3394-1	LUG
	1		D3394-3	LUG
		1	D3394-5	LUG
2	2	2	MS35489-93	GROMMET



D3394-041/-043 LUG ASSEMBLY



D3394-045 LUG ASSEMBLY

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO A CHANGE
WITHOUT NOTICE
DATE OF ISSUE

NO 135954 MLJ
1508-25

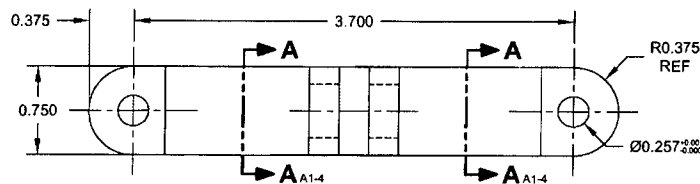
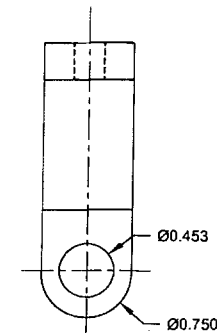
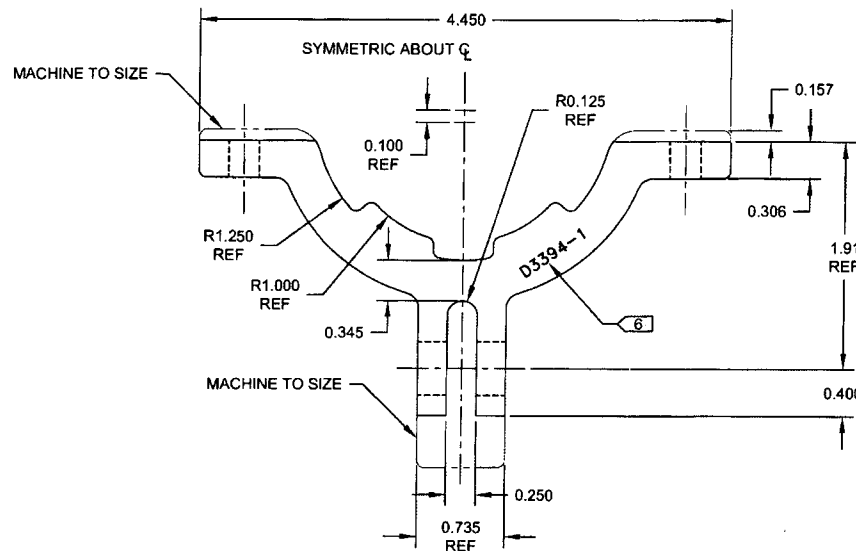
DEO ATTACHED

RELEASED
09/04/02

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.20 lbs APPROX

B	ADDED -045. SHT 4 ADDED FILLETS IN SECTION A-A. SEE PAR 152	AJS	09.04.02
A	NEW ISSUE	PH	05.02.14
REV.	DESCRIPTION	BY	DATE
DESIGN	PH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3394	SHEET 1 OF 4
APPROVED		TITLE	SCALE
DE APPR.		LUG	NTS
DATE	09.04.02	COPYRIGHT © 2003 BY DART AEROSPACE LTD THIS DOCUMENT IS PROPRIETARY AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	



D3394-1 LUG

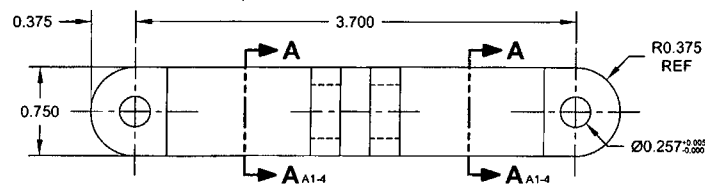
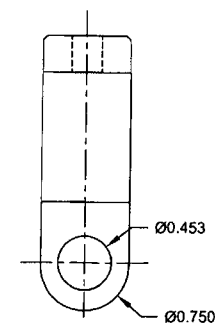
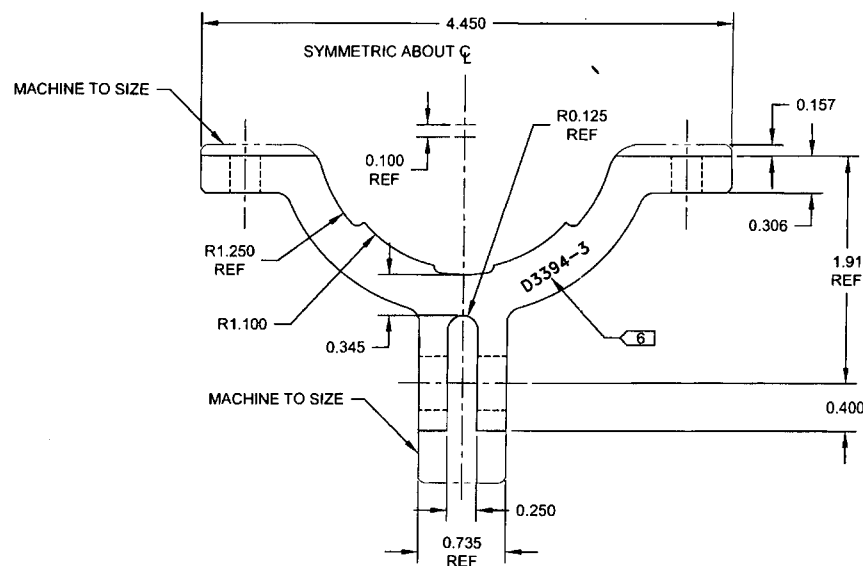
NOTES:

- 1) MATERIAL: MAKE FROM D2423
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: ENGRAVE PART NUMBER TO DEPTH OF 0.010±0.005 IN THIS LOCATION.
WITH TOOL A TIP RADIUS OF 0.015±0.005
- 7) WEIGHT: 0.18 lbs

DEO ATTACHED

RELEASED
09/26/25 JTB

DESIGN	PH	DART AEROSPACE LTD	
DRAWN	A.S.	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3394	SHEET 2 OF 4
APPROVED		TITLE	SCALE
DE APPR.		LUG	NTS
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D3394-3 LUG

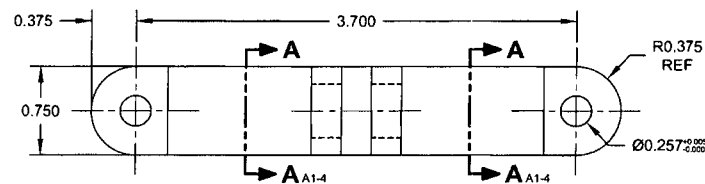
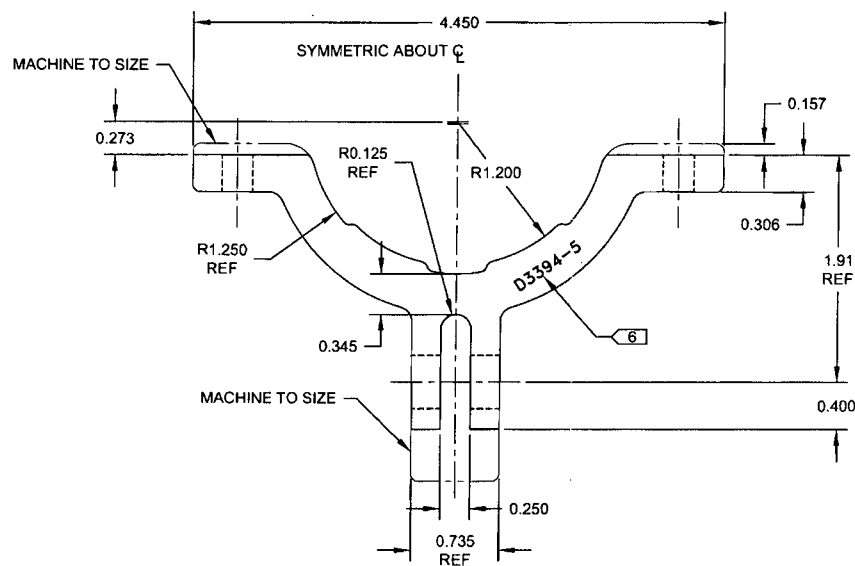
DEO ATTACHED

RELEASED
09/05/25/11

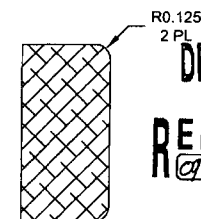
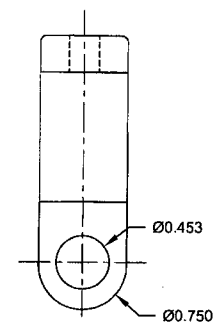
NOTES:

- 1) MATERIAL: MAKE FROM D2423
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: ENGRAVE PART NUMBER TO DEPTH OF 0.010±0.005 IN THIS LOCATION,
WITH TOOL A TIP RADIUS OF 0.015±0.005
- 7) WEIGHT: 0.18 lbs

DESIGN	PH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	A/S		
CHECKED		DRAWING NO. D3394	REV. B
MFG. APPR.			SHEET 3 OF 4
APPROVED		TITLE LUG	SCALE NTS
DE APPR.		COPYRIGHT © 2005 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR DISSEMINATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	
DATE	09.04.02		



D3394-5 LUG



SECTION A-A
B5-2
B4-2
B5-3
B4-3
B5-4
B4-4

DEO ATTACHED
RELEASED
07/06/25 MP

NOTES:

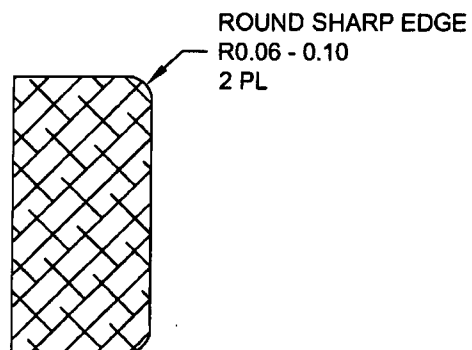
- 1) MATERIAL: MAKE FROM D2423
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: ENGRAVE PART NUMBER TO DEPTH OF 0.010±0.005 IN THIS LOCATION.
WITH TOOL A TIP RADIUS OF 0.015±0.005
- 7) WEIGHT: 0.18 lbs

DESIGN	PH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3394	SHEET 4 OF 4
APPROVED		TITLE	SCALE
DE APPR.		LUG	NTS
DATE	09.04.02	COPYRIGHT © 2005 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

DRAWING NO. D3394	TITLE LUG	REV. B	DART AEROSPACE LTD ENGINEERING ORDER		D.E.O. NO. D3394-B-1	SHEET NO. SHEET 1 OF 1	SCALE NTS
DRAWN AJS	CHECKED	MFG. APPR.	APPROVED		DE APPR.		
DATE 09.11.04	DATE 09.11.04	DATE 09.11.04	DATE 09/11/04		DATE 09/11/04		

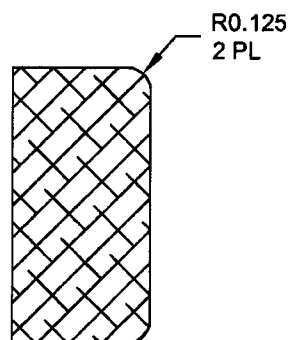
SHEET 4 ZONE A,1 MODIFY SECTION A-A AS SHOWN:

IS:



SECTION A-A

WAS:



SECTION A-A

RELEASED
2009-11-25
md

REASON: DRAFTING ERROR

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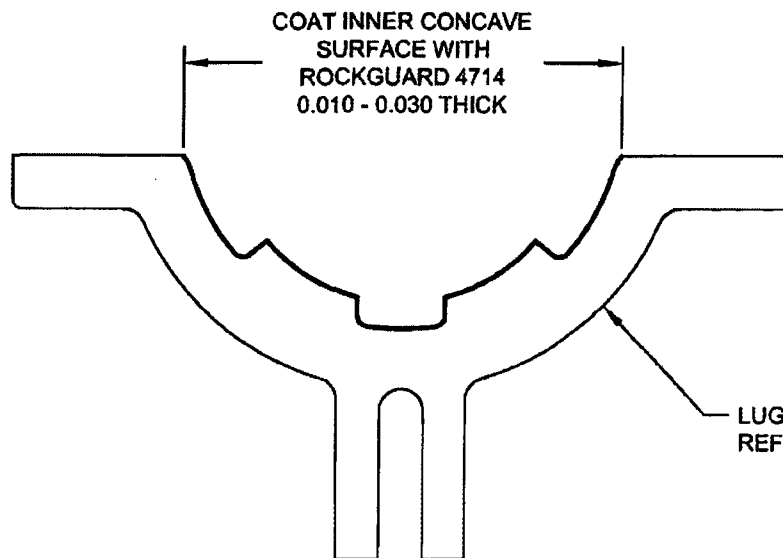
DRAWING NO. D3394	TITLE LUG	REV. B	DART AEROSPACE USA, INC ENGINEERING ORDER		D.E.O. NO. D3394-B-2	SHEET NO. SHEET 1 OF 1	SCALE NTS
DRAWN <i>GP</i>	CHECKED <i>SC</i>	MFG. APPR. <i>M</i>	APPROVED <i>MP</i>		DE APPR. <i>TH</i>		
DATE 11.05.02	DATE 11.05.09	DATE 11.05.09	DATE 11.05.09		DATE 11.05.09		

PURPOSE

ADD D3394-xRG OPTION

CHANGE

D3394-xRG MOUNTING LUGS ARE INDENTICAL TO D3394-x MOUNTING LUGS, HOWEVER AFTER FINISH, COAT INNER CONCAVE SURFACE WITH "PLUS ONE ROCKGUARD 4714" AS SHOWN BELOW.



D3394-1RG LUG (SHOWN)
D3394-3RG/-5RG LUGS (SIMILAR)
D3394-041RG/-043RG/-045RG LUG ASSEMBLIES (SIMILAR)

RELEASED
2011-05-26
MM



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO29607**

Purchase Order Date 8/26/2015

PO Print Date 8/27/2015

Page Number 1 of 2

Order From :

VC-MET003

METEC METAL TECHNOLOGY INC.
20 TERRY FOX DRIVE PO BOX 781
VANKLEEK HILL, ON K0B 1R0
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FOCUS

Contact Name

Vendor Phone 613 678 3957

Ship To Contact

Ship To Phone

Ship Via: Dart Truck

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

CAD

FOB

Destination-Collect

REVISED

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D2731-7P AS PER DWG D2731 REV. C B135953 ALODIDE AND PAINT AS PER QSI 005	Lug	9/14/2015 Yes 9/14/2015		24.00 Each	\$13.00	\$312.00
Line Total:							\$312.00
2	D3394-3P AS PER DWG D3394 REV. B B135954 ALODINE AND PAINT AS PER QSI 005	Lug	9/14/2015 Yes 9/14/2015		36.00 Each	\$14.00	\$504.00
Line Total:							\$504.00

Note:

8/27/2015



20 Terry Fox Drive
Vankleek Hill, Ontario K0B 1R0 , Canada
Tel: (613) 678-3957
Fax: (613) 678-3956

Delivery Slip No.: 20545
Date: Sep 24, 2015
Page: 1

Sold to: Dart Aerospace Ltd. Att. Linda Lacelle 1270 Aberdeen Street Hawkesbury, Ontario K6A 1K7	Ship to: Dart Aerospace Ltd. Att. Linda Lacelle 1270 Aberdeen Street Hawkesbury, Ontario K6A 1K7
Order No.: 29607	Sold By: Walz, Christian D.
Shipped By: your truck	Ship Date: Sep 24, 2015

Description	Unit	Ordered quantity	Shipped quantity	Backorder quantity
D2731-7 LUG	Each	24	24 ✓	
D3394-3 Lug	Each	36	36 ✓	
The delivered goods must be inspected upon receipt to confirm compliance. Should there be discrepancies please notify METEC within 30 days of delivery. The goods are otherwise deemed accepted.				
Received by _____		Thank you for your order!		



20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0
Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 metec@metec.ca

CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ont.
K6A 1K7

SHIPPED TO:

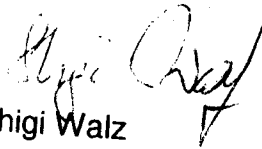
same

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>PART NAME</u>	<u>P.O. NUMBER</u>
24	D2731-7 PAINT BATCH #	Lug 20105 Batch # B127892	29607
36	D3394-3 PAINT BATCH #	Lug 20082 Batch # B127892	29607

MATERIAL: supplied by DART

We hereby certify that the above parts were made in conformance with applicable drawings.

METEC Metal Technology Inc.


Shigi Walz

Vankleek Hill, September 24, 2015